

Remarks

Claims 6-7 and Claims 8-9 are related to objective video quality measurement. Furthermore, the goal of Claims 8-9 is not the computation of spatial and temporal differences. The object of Claims 8-9 is the computation of an objective video score by taking the inner product of a spatial and temporal frequency difference vector and a weight vector.

It is also noted that similar inventions related to video quality measurements have been classified in class 348 (TELEVISION), subclass 192 (TRANSMISSION PATH TESTING):

- US patent 5,446,492 (Wolf, et al.) "Perception-based video quality measurement system"
- US Patent 6,496,221 (Wolf, et al.) "In-service video quality measurement system utilizing an arbitrary bandwidth ancillary data channel."

On the other hand, class 375 (PULSE OR DIGITAL COMMUNICATIONS), subclass 240.19 (BANDWIDTH REDUCTION OR EXPANSION-WAVELET) is related to bandwidth reduction or expansion. Although the Applicant's video quality measurement methods use wavelet transforms, they have nothing to do with data compression, bandwidth reduction or expansion. Furthermore, class 348 (Television), subclass 425.1 (Associated signal processing) does not represent well the idea and teaching of the Applicant's inventions. The video quality measurement methods of the Applicant's invention measure impairments which are introduced to source videos during transmission and compression which can be also viewed as a part of transmission path. (Fig. 1). The Applicant's inventions can be also used for video quality measurement in analog broadcasting after digitizing (Fig. 2).

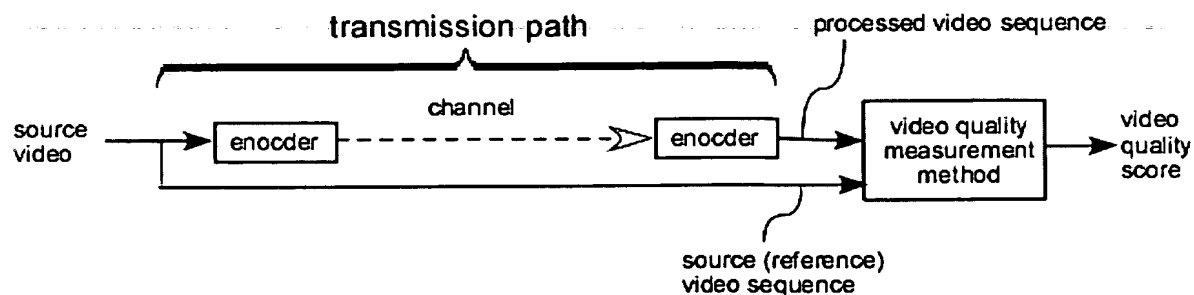
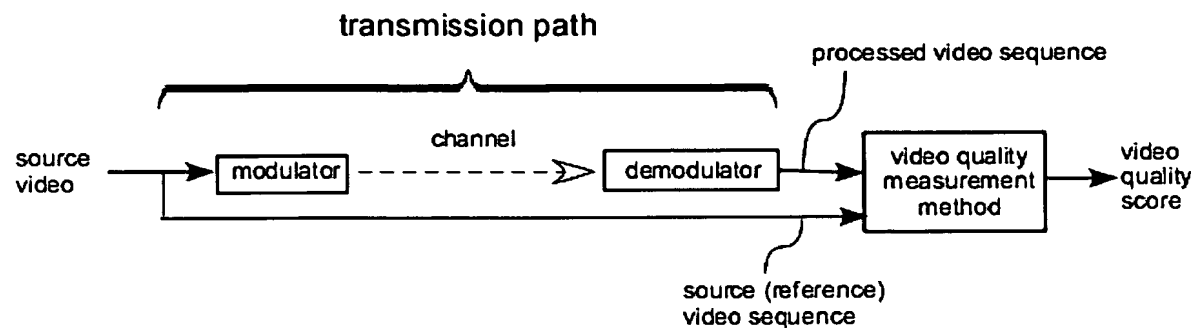


Fig. 1. A block-diagram of the video quality measurement method (digital transmission).



- 1 Fig. 2. A block-diagram of the video quality measurement method (analog transmission).
- 2 Since the Applicant's inventions are in the same category as the existing patents (e.g., US
- 3 Patents 5,446,492 and 6,496,221) and the methods of the Applicant's invention measures
- 4 impairments occurring to source videos during transmission, the Applicant believes that all of
- 5 Claims 6-9 should be classified in class 348, subclass 192.